Figure 1A

```
>3353644      CATTTGAGGC CATATAAAGT CACCTGAGGC NCTCTCCACC ACAGCCCACC
>2804743                                   GAGGC CCTCTCCACC ACAGCCCACC
>1891065                                                            C
Consensus     CATTTGAGGC CATATAAAGT CACCTGAGGC CCTCTCCACC ACAGCCCACC


>3353644      AGTGACCATG AAGGCTGTGC TGCTTGCCCT GTTGATGGCA GGCTTGGCCC
>2804743      AGTGACCATG AAGGCTGTGC TGCTTGCCCT GTTGATGGCA GGCTTGGCCC
>1891065      AGTGACCATG AAGGCTGTGC TGCTTGCCCT GTTGATGGCA GGCTTGGCCC
>1543671       GTGACCATG AAGGCTGTGC TGCTTGCCCT GTTGATGGCA GGCTTGGCCC
>1543671IH     GTGACCATG AAGGCTGTGC TGCTTGCCCT GTTGATGGCA GGCTTGGCCC
Consensus     AGTGACCATG AAGGCTGTGC TGCTTGCCCT GTTGATGGCA GGCTTGGCCC


>3353644      TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC
>2804743      TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC
>1891065      TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC
>1543671      TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC
>1543671IH    TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC
Consensus     TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC


>3353644      AACGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG
>2804743      AACGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG
>1891065      AACGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG
>1543671      AACGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG
>1543671IH    AACGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG
>1863905         CGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG
Consensus     AACGAGGACT GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG


>3353644      CTGGACCGCG CGCATCCGCG CAGTTGGCCT CNTGACCGTC ATCAGCAAAG
>2804743      CTGGACCGCG CGCATCCGCG CAGTTGGCCT CCTGACCGTC ATCAGCAAAG
>1891065      CTGGACCGCG CGCATCCGCG CAGTTGGCCT CCTGACCGTC ATCAGCAAAG
>1543671      CTGGACCGCG CGCATCCGCG CAGTTGGCCT CCTGACCGTC ATCAGCAAAG
>1543671IH    CTGGACCGCG CGCATCCGCG CAGTTGGCCT CCTGACCGTC ATCAGCAAAG
>1863905      CTGGACCGCG CGCATCCGCG CAGTTGGCCT CCTGACCGTC ATCAGCAAAG
Consensus     CTGGACCGCG CGCATCCGCG CAGTTGGCCT CCTGACCGTC ATCAGCAAAG


>3353644      :CTGCAGCTT GAACTGCGTG GATGANTCAC AGGANTACTA C
>2804743      GCTGCAGCTT GAACTGCGTG GATGACTCAC AGGACTACTA CGTGGGCAAG
>1891065      GCTGCAGCTT GAACTGCGTG GATGACTCAC AGGACTACTA CGTGGGCAAG
>1543671      GCTGCAGC
>1543671IH    GCTGCAGCTT GAACTGCGTG GATGACTCAC AGGACTACTA CGTGGGCAAG
>1863905      GCTGCAGCTT GAACTGCGTG GATGACTCAC AGGACTACTA CGTGGGCAAG
Consensus     GCTGCAGCTT GAACTGCGTG GATGACTCAC AGGACTACTA CGTGGGCAAG


>2804743      AAGAACATCA CGTGCTGT
>1891065      AAGAACATCA CGTGCTGTGA CACCGACT
>1543671IH    AAGAACATCA CGTGCTGTGA CACCGACTTG TGCAACGCCA GCGGGGCCCA
>1863905      AAGAACATCA CGTGCTGTGA CACCGACTTG TGCAACGCCA GCGGGGCCCA
>1314679                 GTGCTGTGA CACCGACTTG TGCAACGCCA GCGGGGCCCA
Consensus     AAGAACATCA CGTGCTGTGA CACCGACTTG TGCAACGCCA GCGGGGCCCA
```

Figure 1B

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>1543671IH     TGCCCTGCAG  CCGGCTGCCG  CCATCCTTGC  GCTGCTCCCT  GCACTCGGCC
>1863905       TGCCCTGCAG  CCGGCTGCCG  CCATCCTTGC  GCTGCTCCCT  GCACTCGGCC
>1314679       TGCCCTGCAG  CCGGCTGCCG  CCATCCTTGC  GCTGCTCCCT  GCACTCGGCC
Consensus      TGCCCTGCAG  CCGGCTGCCG  CCATCCTTGC  GCTGCTCCCT  GCACTCGGCC

>1543671IH     TGCTGCTCTG  GGGACCCGGC  CAGCTATAGG  CTCTGGGGGG  CCCCGCTGCA
>1863905       TGCTGCTCTG  GGGACCC
>1314679       TGCTGCTCTG  GGGACCCGGC  CAGCTATAGG  CTCTGGGGGG  CCCCGCTGCA
Consensus      TGCTGCTCTG  GGGACCCGGC  CAGCTATAGG  CTCTGGGGGG  CCCCGCTGCA

>1543671IH     GCCCACACTG  GGTGTGGTGC  CCCAGGCCTC  TGTGCCACTC  CTCACAGACC
>1314679       GCCCACACTG  GGTGTGGTGC  CCCAGGCCTC  TGTGCCACTC  CTCACAGACC
>1901337                                                              C
Consensus      GCCCACACTG  GGTGTGGTGC  CCCAGGCCTC  TGTGCCACTC  CTCACAGACC

>1543671IH     TGGCCCAGTG  GGAGCCTGTC  CTGGTTCCTG  AGGCACATCC  TAACGCAAGT
>1314679       TGGCCCAGTG  GGAGCCTGTC  CTGGTTCCTG  AGGCACATCC  T
>1901337       TGGCCCAGTG  GGAGCCTGTC  CTGGTTCCTG  AGGCACATCC  TAACGCAAGT
>1900086                         GTC  CTGGTTCCTG  AGGCACATCC  TAACGCAAGT
Consensus      TGGCCCAGTG  GGAGCCTGTC  CTGGTTCCTG  AGGCACATCC  TAACGCAAGT

>1543671IH     CTGACCATGT  ATGTCTGCAC  CCCTGTCCCC  CACCCTGACC  CTCCCATGGC
>1901337       CTGACCATGT  ATGTCTGCNC  CCCTGTCCCC  CACCCTGACC  CTCCCATGGC
>1900086       CTGACCATGT  ATGTCTGCAC  CCCTGTNCCC  CACCCTGACC  CTCCCATGGC
Consensus      CTGACCATGT  ATGTCTGCAC  CCCTGTCCCC  CACCCTGACC  CTCCCATGGC

>1543671IH     CCTCTCCAGG  ACTCCCACCC  GGCAGATCAG  CTCTAGTGAC  ACAGATCCGC
>1901337       CCTCTCCAGG  ACTCCCACCC  GGCAGATCAG  CTCTAGTGAC  ACAGATCCGC
>1900086       CCTCTCCAGG  ACTCCCACCC  GGCAGATCAG  CTCTAGTGAC  ACAGATCCGC
Consensus      CCTCTCCAGG  ACTCCCACCC  GGCAGATCAG  CTCTAGTGAC  ACAGATCCGC

>1543671IH     CTGCAGATGG  CCCCTCCAAC  CCTCTCTGCT  GCTGTTTCCA  TGGCCCAGCA
>1901337       CTGCAGATGG  CCCCTCCAAC  CCTCTCTGCT  GCTGTTTCCA  TGGCCCAGCA
>1900086       CTGCAGATGG  CCCCTCCAAC  CCTCTCTGCT  GCTGTTTCCA  TGGCCCAGCA
Consensus      CTGCAGATGG  CCCCTCCAAC  CCTCTCTGCT  GCTGTTTCCA  TGGCCCAGCA

>1543671IH     TTCTCCACCC  TTAACCCTGT  GCTCAGGCAC  CTCTTCCCCC  AGGAAGCCTT
>1901337       TTCTCCACCC  TTAACCCTGT  GCTCAGGCAC  CT
>1900086       TTCTCCACCC  TTAACCCTGT  GCTCAGGCAC  CTCTTCCCCC  AGGAAGCCTT
>2325070                   TAACCCTGT  GCTCAGGCAC  CTCTTCCCCC  AGGAAGCCTT
Consensus      TTCTCCACCC  TTAACCCTGT  GCTCAGGCAC  CTCTTCCCCC  AGGAAGCCTT

>1543671IH     CCCTGCCCAC  CCCATCTATG  ACTTGAGCCA  GGTCTGGTCC  GTGGTGTCCC
>1900086       CCCTGCCCAC  CCCATCT
>2325070       CCCTGCCCAC  CCCATCTATG  ACTTGAGCCA  GGTCTGGTCC  GTGGTGTCCC
>3969672                       ATCTATG  ACTTGAGCCA  GGTCTGGTCC  GTGGTGTCCC
Consensus      CCCTGCCCAC  CCCATCTATG  ACTTGAGCCA  GGTCTGGTCC  GTGGTGTCCC

>1543671IH     CCGCACCCAG  CAGGGGACAG  GCACTCAGGA  GGGCCCAGTA  AAGGCTGAGA
>2325070       CCGCACCCAG  CAGGGGACAG  GCACTCAGGA  GGGCCCAGTA  AAGGCTGAGA
>3969672       CCGCACCCAG  CAGGGGACAG  GCACTCAGGA  GGGCCCAGTA  AAGGCTGAGA
Consensus      CCGCACCCAG  CAGGGGACAG  GCACTCAGGA  GGGCCCAGTA  AAGGCTGAGA
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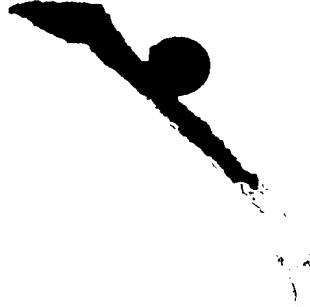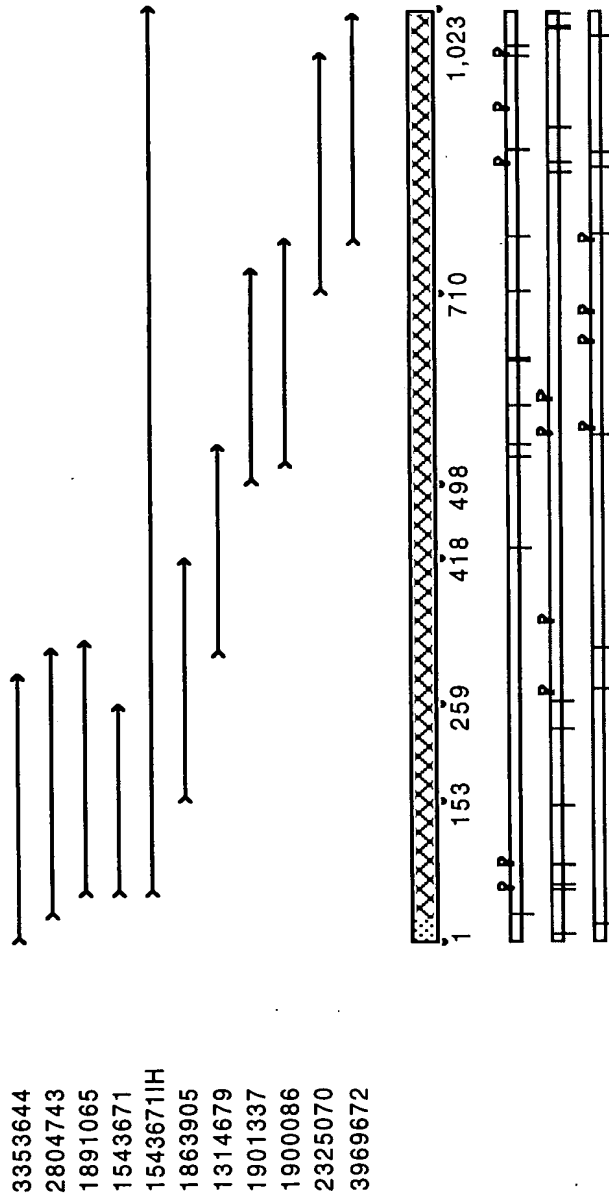
Figure 1C

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>1543671IH    TGAAGTGGAC  TGAGTAGAAC  TGGAGGACAA  GAGTCGACGT  GAGTTCCTGG
>2325070      TGAAGTGGAC  TGAGTAGAAC  TGGAGGACAA  GAGTCGACGT  GAGTTCCTGG
>3969672      TGAAGTGGAC  TGAGTAGAAC  TGGAGGACAA  GAGTCGACGT  GAGTTCCTGG
Consensus     TGAAGTGGAC  TGAGTAGAAC  TGGAGGACAA  GAGTCGACGT  GAGTTCCTGG

>1543671IH    GAGTCTCCAG  AGATGGGGCC  TGGAGGCCTG  GAGGAAGGGG  CCAGGCCTCA
>2325070      GAGTCTCCAG  AGATGGGGCC  TGGAGGCCTG  GAGGAAGGGG  CCAGGCCTCA
>3969672      GAGTCTCCAG  AGATGGGGCC  TGGAGGCCTG  GAGGAAGGGG  CCAGGCCTCA
Consensus     GAGTCTCCAG  AGATGGGGCC  TGGAGGCCTG  GAGGAAGGGG  CCAGGCCTCA

>1543671IH    CATTCGTGGG  GCTCCCTGAA  TGGCAGCCTG  AGCACAGCGT  AGGCCCTTAA
>2325070      CATTCGTGGG  GCTCCCTGAA
>3969672      CATTCGTGGG  GCTCCCTGAA  TGGCAGCCTG  AGCACAGCGT  AGGCCCTTAA
Consensus     CATTCGTGGG  GCTCCCTGAA  TGGCAGCCTG  AGCACAGCGT  AGGCCCTTAA

>1543671IH    TAAACACCTG  TTGGATAAGC  CCA
>3969672      TAAACACCTG  TTGGAT
Consensus     TAAACACCTG  TTGGATAAGC  CCA
```

Figure 2

3353644
2804743
1891065
1543671
1543671IH
1863905
1314679
1901337
1900086
2325070
3969672

1   153   259   418   498   710   1,023

Figure 3
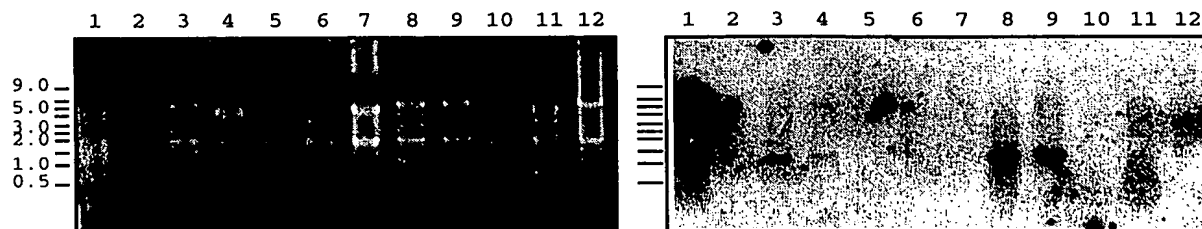
Lane	Tissue	Lane	Tissue
1	Normal Bladder	7	Bladder Cancer
2	Normal Bladder	8	Bladder Cancer
3	Normal Bladder	9	Bladder Cancer
4	Normal Bladder	10	Bladder Cancer
5	Normal Bladder	11	Bladder Cancer
6	Normal Bladder	12	PS116 Bacterial RNA

Figure 4
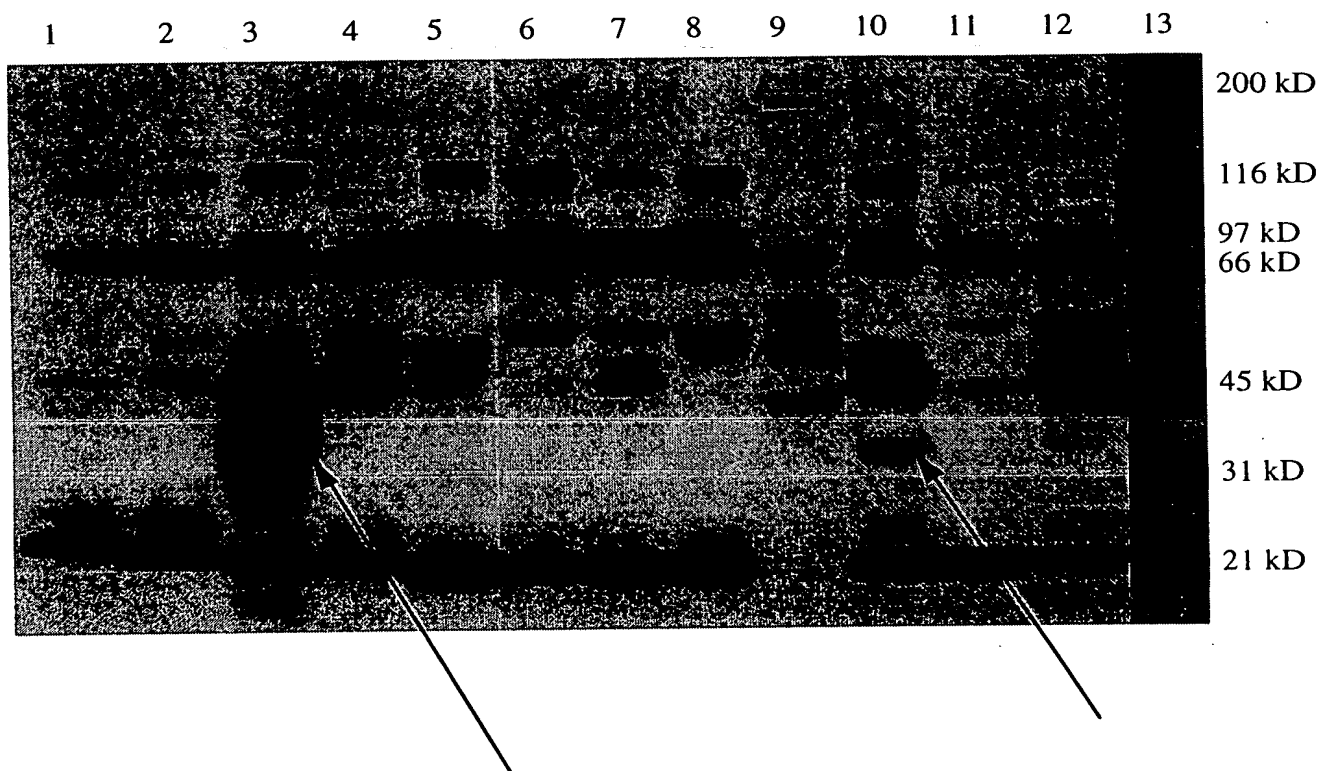
Lane	Tissue	Lane	Tissue
1	Bladder Cancer	8	Breast
2	Bladder	9	Prostate Cancer
3	Bladder Cancer	10	Prostate Cancer
4	Bladder	11	Prostsate Cancer
5	Bladder Cancer	12	BPH
6	Colon	13	Markers
7	Lung		